

### **5-point scale to rate the conclusion believability of materials**

In the pilot study, participants were asked to rate the conclusion believability:

1. How do you think “Some metals are not iron” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

2. How do you think “Some trees are not willow” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

3. How do you think “Some animals are not cat” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

4. How do you think “Some lilies are not flowers” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

5. How do you think “Some birds are not magpie” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

6. How do you think “Some milters are not fish” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

7. How do you think “Some wasps are not insects” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

8. How do you think “Some flowers are not peony” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

9. How do you think “Some swallows are not birds” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

10. How do you think “Some deer are not beasts” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

11. How do you think “Some animals are not lion” is believable?

1-very unbelievable 2-unbelievable 3-neutral 4-believable 5-very believable

12. How do you think “Some parrots are not birds” is believable?

1-very unbelievable 2-unbelievable 3-neutral 4-believable 5-very believable

13. How do you think “Some birds are not pigeon” is believable?

1-very unbelievable 2-unbelievable 3-neutral 4-believable 5-very believable

14. How do you think “Some crucian carps are not fish” is believable?

1-very unbelievable 2-unbelievable 3-neutral 4-believable 5-very believable

15. How do you think “Some metals are not aluminum” is believable?

1-very unbelievable 2-unbelievable 3-neutral 4-believable 5-very believable

16. How do you think “Some clubs are not flowers” is believable?

1-very unbelievable 2-unbelievable 3-neutral 4-believable 5-very believable

17. How do you think “Some pandas are not animals” is believable?

1-very unbelievable 2-unbelievable 3-neutral 4-believable 5-very believable

18. How do you think “Some flowers are not rose” is believable?

1-very unbelievable 2-unbelievable 3-neutral 4-believable 5-very believable

19. How do you think “Some fish are not carp” is believable?

1-very unbelievable 2-unbelievable 3-neutral 4-believable 5-very believable

20. How do you think “Some flowers are not orchid” is believable?

1-very unbelievable 2-unbelievable 3-neutral 4-believable 5-very believable

21. How do you think “Some butterflies are not worms” is believable?

1-very unbelievable 2-unbelievable 3-neutral 4-believable 5-very believable

22. How do you think “Some fish are not goldfish” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

23. How do you think “Some banyans are not trees” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

24. How do you think “Some silver is not metal” is believable?

1-very unbelievable   2-unbelievable   3-neutral   4-believable   5-very believable

### Believability ratings on conclusions

Believable	<i>M</i> ( <i>SD</i> ) young	<i>M</i> ( <i>SD</i> ) old	<i>t</i>	<i>p</i>	Unbelievable	<i>M</i> ( <i>SD</i> ) young	<i>M</i> ( <i>SD</i> ) old	<i>t</i>	<i>p</i>
Some metals are not iron	4.74 (0.74)	4.68 (0.72)	0.39	0.693	Some clubs are not flowers	1.23 (0.91)	1.34 (1.02)	−0.52	0.603
Some trees are not willow	4.87 (0.45)	4.78 (0.53)	0.89	0.378	Some pandas are not animals	1.45 (1.21)	1.61 (1.30)	−0.61	0.545
Some animals are not cat	4.94 (0.32)	4.85 (0.42)	1.04	0.303	Some wasps are not insects	1.36 (0.89)	1.54 (1.00)	−0.87	0.390
Some fish are not goldfish	4.85 (0.63)	4.76 (0.69)	0.67	0.503	Some butterflies are not worms	1.45 (1.18)	1.59 (1.27)	−0.53	0.596
Some birds are not magpie	4.85 (0.66)	4.73 (0.74)	0.79	0.426	Some millets are not fish	1.32 (0.96)	1.46 (0.98)	−0.69	0.487
Some flowers are not orchid	4.79 (0.78)	4.68 (0.85)	0.60	0.550	Some deer are not beasts	1.32 (0.96)	1.51 (1.03)	−0.95	0.347
Some birds are not pigeon	4.96 (0.20)	4.85 (0.36)	1.700	0.093	Some lilies are not flowers	1.62 (1.36)	1.83 (1.38)	−0.73	0.470
Some flowers are not peony	4.77 (0.87)	4.61 (0.97)	0.79	0.427	Some swallows are not birds	1.32 (0.96)	1.49 (1.08)	−0.78	0.439
Some flowers are not rose	4.91 (0.35)	4.78 (0.48)	1.52	0.132	Some parrots are not birds	1.19 (0.71)	1.32 (0.85)	−0.76	0.453
Some animals are not lion	4.96 (0.20)	4.85 (0.36)	1.49	0.138	Some crucian carps are not fish	1.26 (0.89)	1.44 (1.05)	−0.89	0.378
Some metals are not aluminum	4.72 (0.90)	4.56 (1.03)	0.79	0.431	Some silver is not metal	1.47 (1.10)	1.59 (1.10)	−0.50	0.618
Some fish are not carp	4.89 (0.43)	4.71 (0.68)	1.56	0.123	Some banyans are not trees	1.32 (0.98)	1.56 (1.14)	−1.07	0.288